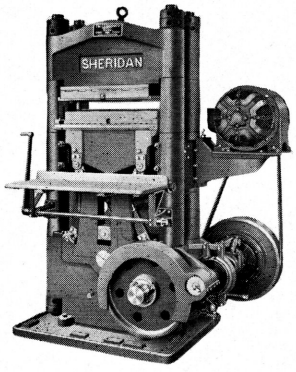
SHERIDAN PRESSES
FOR BOOKBINDERS



FOR
STAMPING
EMBOSSING
SMASHING
CUTTING-OUT
AND
INKING

T. W. & C. B. SHERIDAN CO.

Established 1835

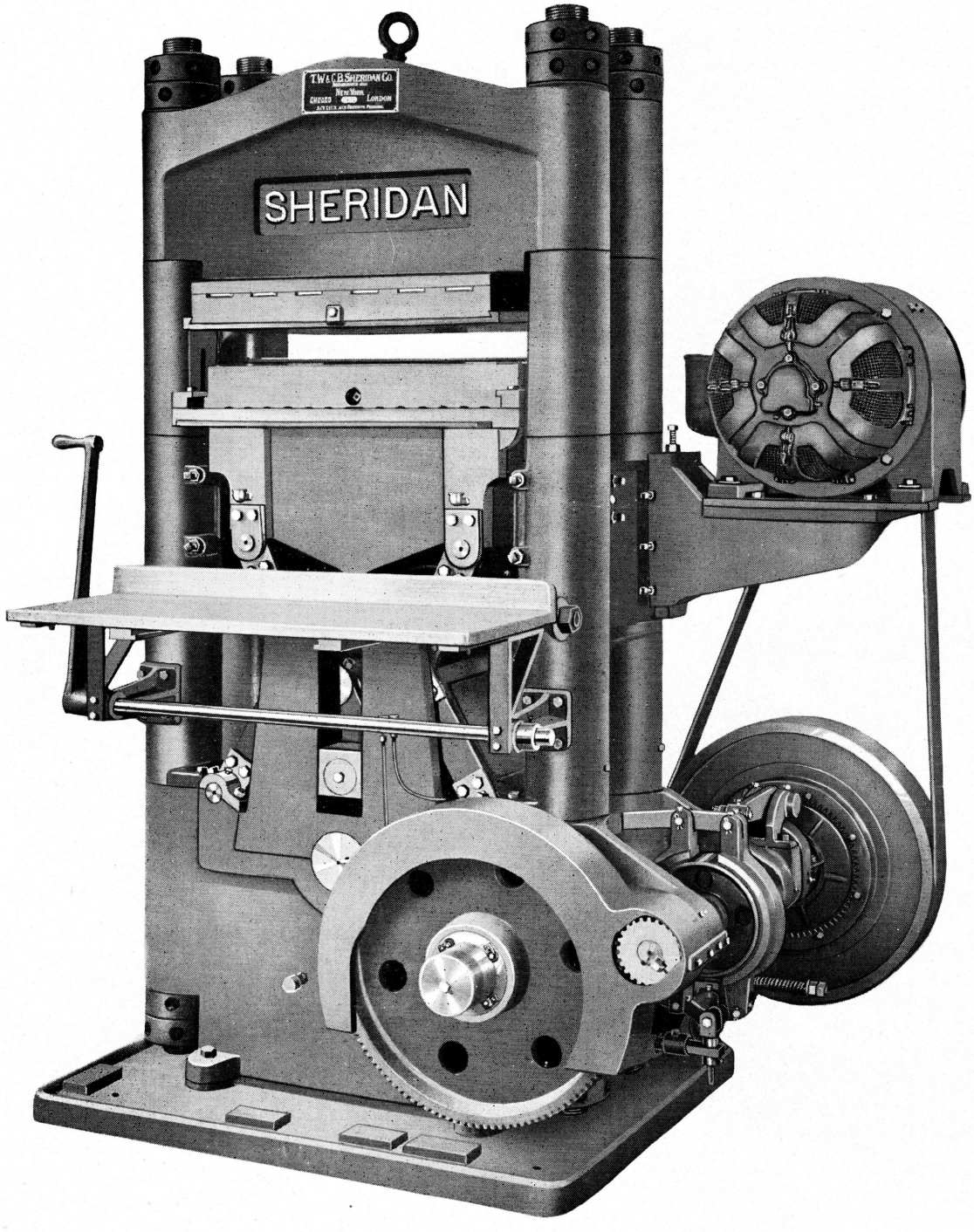
Office and Salesroom
135 LAFAYETTE STREET
NEW YORK

600 W. Jackson Blvd.
Chicago

183 Essex Street
Boston

74 High Street
Rickmansworth, Herts, Eng.

FOUNDRIES AND WORKS: { CHAMPLAIN, N. Y.
EASTON, PA.



SHERIDAN 5AB BOOKBINDER'S PRESS

The SHERIDAN, triple toggle, self-contained PRESSES are universally recognized as the most powerful and accurate machines ever designed for the bookbinder's use.

SHERIDAN 5AB BOOKBINDER'S PRESS

This Press is used for graining, blanking, embossing and gold stamping. The finest grain can be put in leather and cloth, and every detail of the embossing plate is driven into the material by the enormous pressure. While designed particularly for art cover work, it is adaptable for all classes of stamping and embossing.

The absolute uniformity of pressure obtained by means of our exclusive triple toggle construction and the attention to detail, that only the best workmanship can guarantee, insures absolute accuracy.

Only the finest materials obtainable are used. The enormous weight, coupled with the fact that the rods are made of open-hearth steel, and only cut gears, steel pinions, steel cams, and phosphor-bronze bearings are used, make it the strongest and most durable press on the market. Helical cut pinion and intermediate gears insure quiet operation.

The enormous pressure of 250 tons is easily obtained on the full 27½ x 22 inches embossing surface, the tremendous power bringing out the finest details.

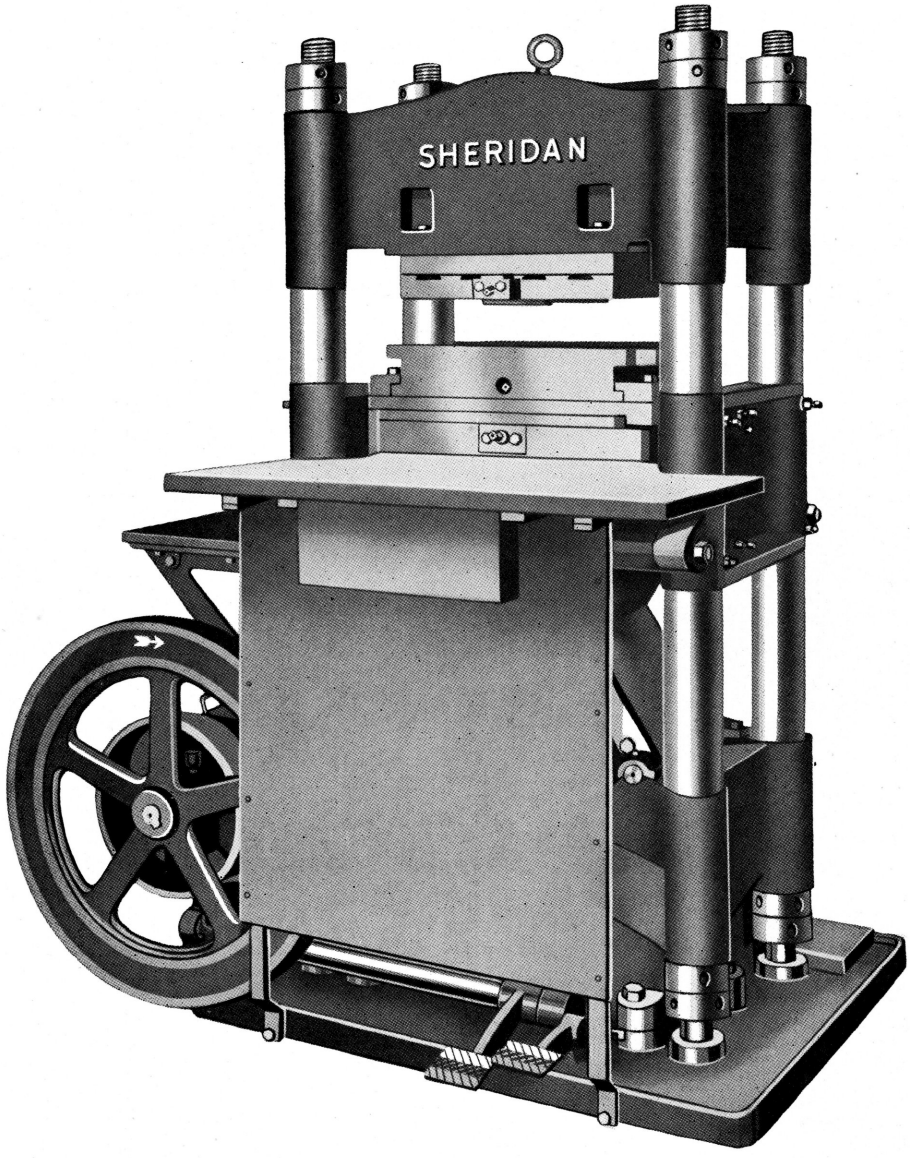
The cam is so constructed that the dwell is fully 30% of its revolution, thus holding the material against the die until the impression is properly set. 12 to 16 impressions per minute, with a smooth, easy motion, is practical on this machine.

All Sheridan Presses are equipped with the best and most up-to-date friction clutch, which is under absolute control at all times and can be shut off instantly, automatically operating the brake.

All Sheridan Presses are self-contained, this machine occupying a floor space of only 67½ by 46 inches.

No. 5AB—Head 27½ x 22 Inches

Floor space, 67½ x 46 inches
Total weight, 14,200 lbs.
Weight of base, 3,700 lbs.
Height, 91 inches
Space between rods, 31¾ inches
Diameter of rods, 3 7/16 inches
Bed, 27½ x 23 inches
Limit of adjustment, ⅜ inch
Opening between head and bed: max. open, 3 11/16 inches; min. closed, ½ inch
Rise and fall, 2 13/16 inches
Flywheel drive, 25 x 4½ inches
Speed, 12 to 16 imp. per min.
Flywheel speed, 300-400 r.p.m.
Gearing, single compound
Ratio gearing, 25 to 1
Horse power, 5



SHERIDAN 3B BOOKBINDER'S PRESS

SHERIDAN 3B BOOKBINDER'S PRESS

Especially designed for all around bindery work, this machine is built for blanking, gold stamping, embossing and smashing, and has all the rugged, rigid strength of the 5AB in a smaller unit.

The bookbinder's sliding bed and the position of the flywheel below the table for minute adjustments when making up the form, are conveniences which will be thoroughly appreciated by practical bookbinders.

Our latest type friction clutch keeps the Press under control at all times.

This machine is designed so a roll leaf feeding attachment (illustrated on page nine) can be installed, feeding either front to back, side to side, or both, if desired.

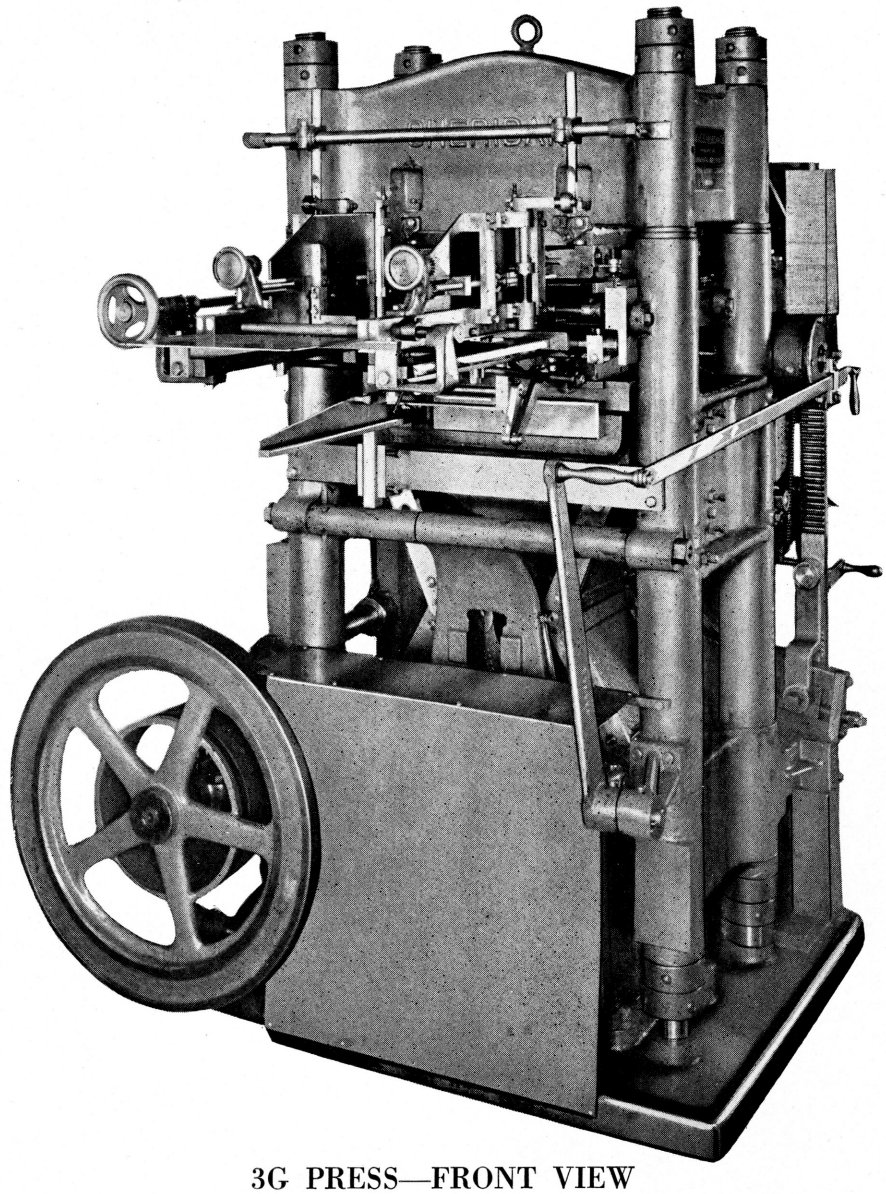
3B Press—Head 18 x 14 Inches

Floor space, 66½ x 48 inches
Total weight, 9,600 lbs.
Weight of base, 2,300 lbs.
Height, 77 inches
Space between rods, 27 inches
Diameter of rods, 2 11/16 inches
Bed, 20 x 15 inches
Limit of adjustment, 7/16 inch
Rise and fall, 2⅞ inches
Pulley, 14 x 2½ inches
Speed, 25 impressions, 416 r.p.m.
Style gearing, single compound
Ratio of gearing, 16⅔ to 1
Horse power, 3

This Press can be constructed with a smasher plate, substituted for the heating head, and supplied with cast iron plates to take up the various adjustments for different heights of book piles. This Press, designated as 3S Smasher, makes a very efficient Smasher for medium work where our heavy duty 5S Smasher is not essential.

3S Smasher—Plate 18 x 14 Inches

Floor space, 66½ x 48 inches
Total weight, 9,600 lbs.
Weight of base, 2,300 lbs.
Height, 77 inches
Space between rods, 27 inches
Diameter of rods, 2 11/16 inches
Bed plate, 20 x 14 inches
Limit of adjustment, 7/16 inch
Rise and fall, 2⅞ inches
Maximum opening, 8 inches
Pulley, 14 x 2½ inches
Speed, 25 impressions, 416 r.p.m.
Style gearing, single compound
Ratio of gearing, 16⅔ to 1
Horse power, 3



3G PRESS—FRONT VIEW

3G—Head 20 x 14 Inches

Case size, 16¼ x 14 inches max., 6 x 6 inches min.
Floor space, 65 x 81½ inches
Total weight, 11,300 lbs.
Weight of base, 2,850 lbs.
Height, 77¾ inches
Space between rods, 27 inches
Diameter of rods, 2 11/16 inches
Sliding plate, 21 x 25⅝ inches
Opening between head and bed: max. open, 4 3/16 inches; min. closed, 1 3/16 inch
Limit of adjustment, 7/16 inch
Rise and fall, 2 15/16 inches
Pulley size, 14 x 3 inches
Flywheel speed, 417 to 500 r.p.m., 25 to 30 impressions
Style gearing, single compound
Ratio of gearing, 16⅔ to 1
Horse power, 3

SHERIDAN

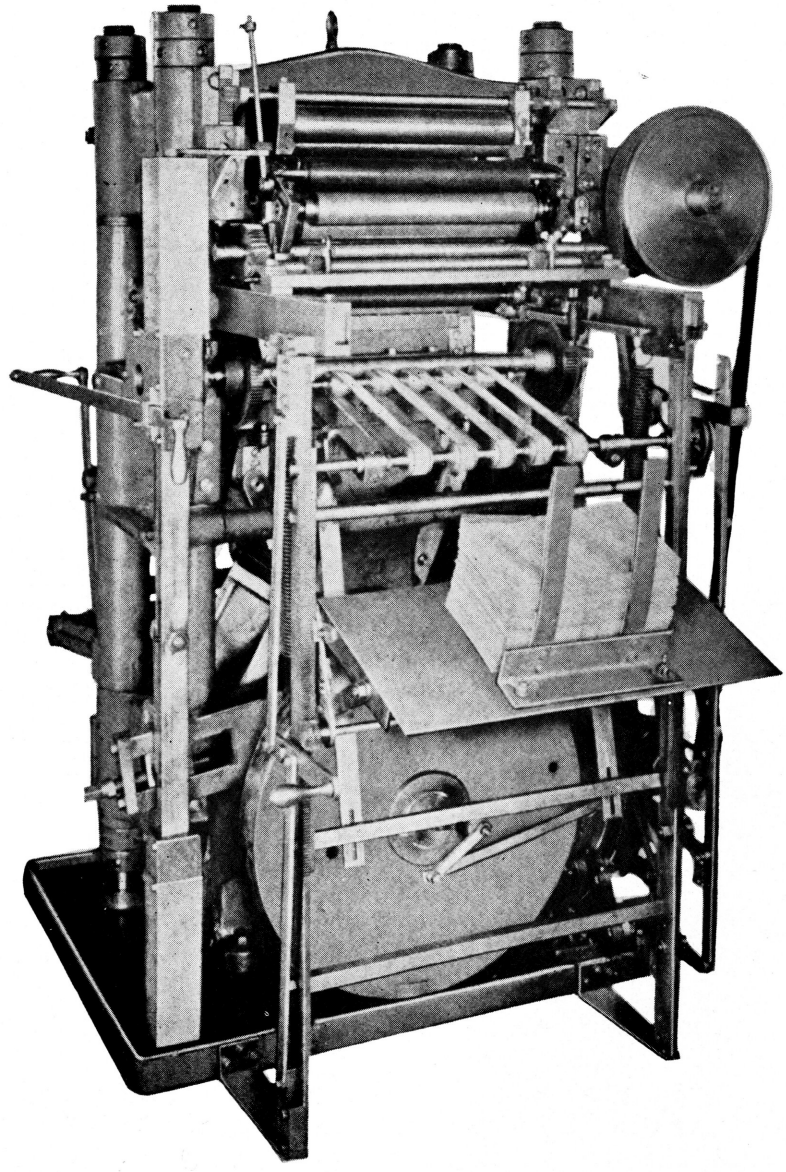
AUTOMATIC CASE-FEEDING PRESSES

The latest development of high-speed presses for bookbinders combines an automatic case-feeding attachment guaranteeing perfect register at a speed of 25 to 30 cases per minute, with the Sheridan triple-toggle self-contained press, universally recognized as the most powerful and accurate machine designed for bookbinders' use.

THE CASE-FEED ATTACHMENT—The open cases are placed in a hopper in front of the press in a pile 9 inches high. The bottom case rests on fingers and is stripped and carried from the bottom of the pile by pushers attached to the automatic sliding plate on which the matrix is mounted.

This plate automatically carries the case into the press between fixed guides. These guides are automatically swung aside for all-over embossing. The cases are prevented from sticking to the dies by two wires extending through the press. Accurate register is guaranteed by the use of three points of gauging, two of which are the pushers and the third being a point on one side guide. After the case is forced into register by spring tension of the side guide together with a slight forward motion of the pushers, it is held firmly in place by the side guides until the operation is completed. The case is then held in the press by two hold-back fingers until after the sliding plate moves back. At this point, the case drops to the level of the wedge plate, and the sliding plate, on its return stroke, pushes it out to an automatic pile delivery which moves down a predetermined distance on each impression. The delivery can be instantaneously swung out of the way by means of a hand lever, making the back of the press easily accessible for make-ready purposes.

THE PRESSES are made in two sizes: the 3G, 16¼ x 14 inches, and the 5G, 21 x 16 inches (5G specifications on following page). They are used for blanking, embossing, gold stamping or cutting out. An up-to-date automatic inking attachment can be incorporated if desired. Roll leaf feeding attachment (illustrated on page nine) can be installed to feed either front to back, side to side, or both ways, if desired.



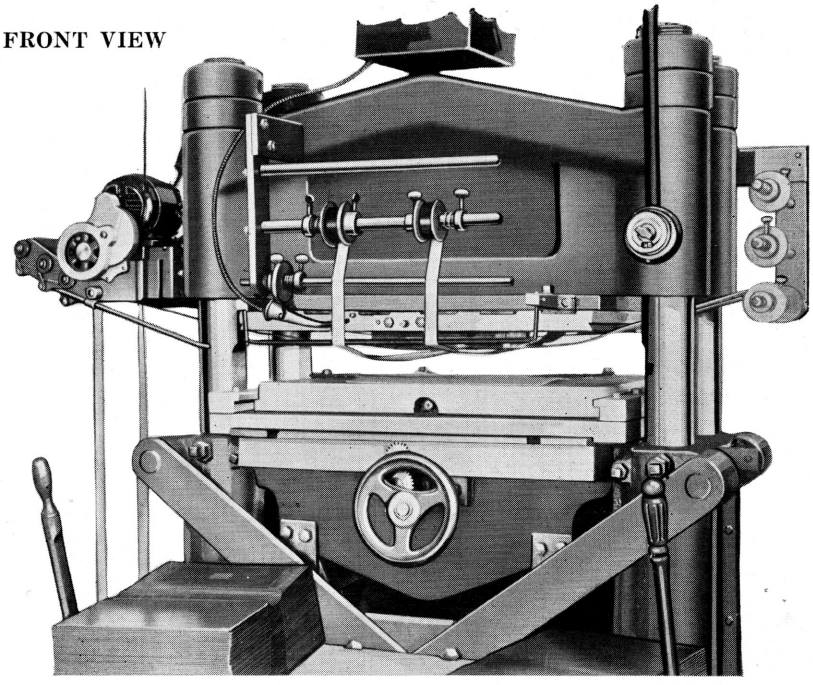
3G PRESS—BACK VIEW WITH INKING ATTACHMENT

5G—Head 26 x 18 Inches

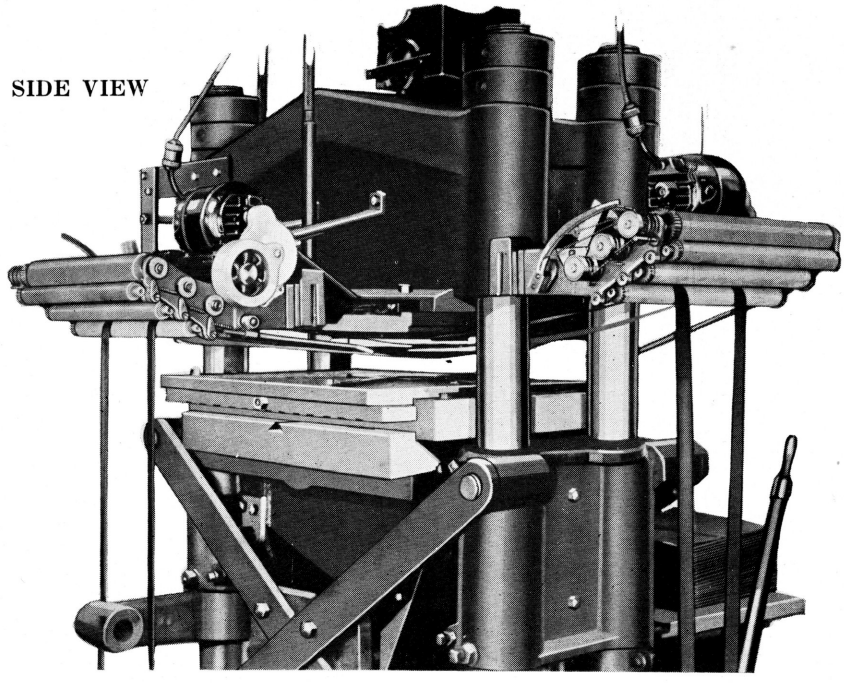
Case size, 21 x 16 inches max., 7 x 7 inches min.
Floor space, 67½ x 96½ inches
Total weight, 16,000 lbs.
Weight of base, 3,240 lbs.
Height, 89 inches
Space between rack guides, 31 9/16 inches
Diameter of rods, 3 7/16 inches
Sliding plate, 26 x 31½ inches
Limit of adjustment, ⅜ inch
Opening between head and bed: max. open, 4⅛ inches; min. closed, 13/16 inch
Rise and fall, 2 15/16 inches
Flywheel drive, 24¼ x 4½ inches
Flywheel speed, 625 r.p.m., 25 impressions per minute
Gearing, single compound
Ratio gearing, 25 to 1
Horse power, 5

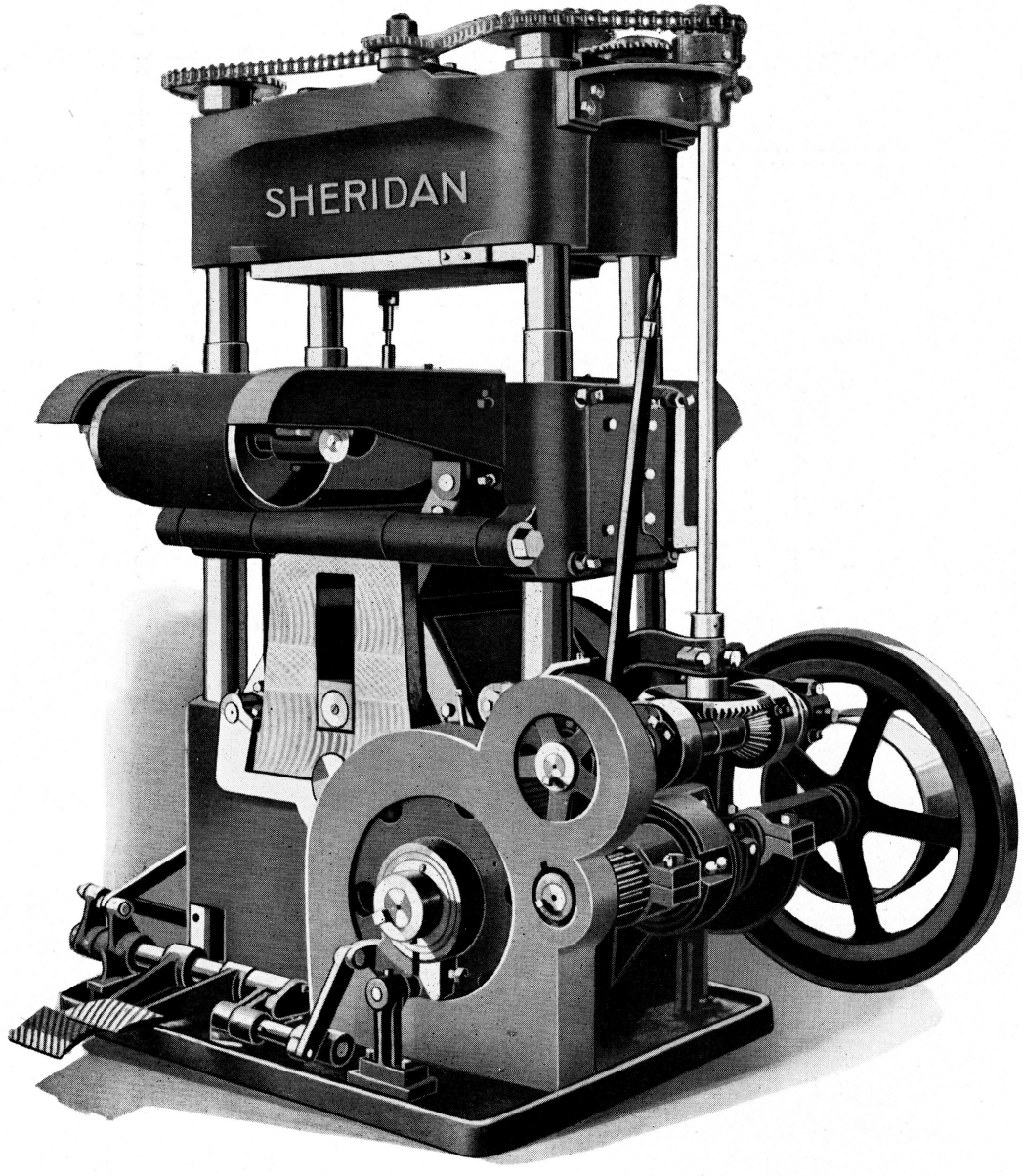
A **Roll Leaf Feeding** mechanism can be installed on the Sheridan 3B, 5AB or Automatic Case Feed Presses to feed either front to rear, side to side, or both if desired; as illustrated below.

FRONT VIEW



SIDE VIEW





SHERIDAN 5S SMASHER—Smashing Head 25 x 16 Inches*

Plate, 25 x 16 inches
Bed, 24 x 16 inches
Distance between rods, $32\frac{5}{16}$ inches
Diameter of rods, $3\frac{11}{16}$ inches
Rise and fall, $3\frac{1}{2}$ inches
Limit of adjustment, $5\frac{1}{4}$ inches
Maximum opening, $9\frac{1}{2}$ inches
Impressions per minute, 16
Pulley, 18 x 6 inches
Speed, 400 r.p.m.
Gearing, single compound
Ratio of gearing, 25 to 1
Horse power, 5
Weight, 13,800 lbs.
Weight of base, 3,500 lbs.
Floor space, $67\frac{1}{2}$ x 55 inches
Height, 84 inches

***When equipped with belt feed, smashing area is 15 x 16 inches**

SHERIDAN 5S SMASHER

Smashing Head, 25 x 16 Inches

Operates at a speed of 16 impressions per minute, with a smooth, easy motion, free from jar or vibration. This machine is arranged to dwell on the impression, thus giving the best results for smashing. The cam is timed to dwell also when the machine is open, giving the operator ample time to feed and take out the books.

The enormous pressure of 250 tons applied with a direct upward stroke is easily obtained on the full smashing surface. The ratio of gearing 25 to 1 gives the greatest pressure with the least horse power.

The smashing surfaces both on the head and bed are planed and polished so as to eliminate marking of books. The minute adjustment makes it possible at all times to get just the proper compression. The absolute uniformity of pressure obtained by means of our exclusive triple toggle construction and the attention to details, that only the best workmanship can guarantee, insure accurate, uniform work.

The machine weighs 13,800 pounds, and is strongly and compactly built. Only the finest material obtainable is used. The enormous weight, coupled with the fact that the rods are made of open-hearth steel and only cut gears, steel pinions, steel cams, and phosphor-bronze bearings and journals are used, make it the strongest and most durable Smasher on the market. The regular equipment consists of an up-to-date friction clutch, with a safety shearing pin attachment, two-foot treadles being provided, one to start and one to stop. When started, the machine runs continuously until stopped. The press being self-contained, it is possible to work either from the front or back of the machine, or from both the front and back of the machine at the same time.

The automatic power adjustable head is worked by a separate clutch and controlled by a hand lever conveniently placed on the right hand side of the machine. The head is easily arranged, with an adjustment of 5¼ inches, which can be increased to 12 inches, if desired. The bed has a rise and fall of 3½ inches, making the normal maximum opening of 9½ inches, which can be increased by an increased adjustment of the head to 15½ inches, if desired. The adjustable head is equipped with a measuring device, which shows the exact opening at all times. These adjustments eliminate all plates and cardboards used for different thickness of books.

An Automatic Belt Conveyor can be supplied as an extra at the time the machine is ordered. Where a large output is necessary, this is a most desirable feature, as a boy can feed the books from one side, and, after being smashed, either once or twice, depending on the timing of the conveyor, the books can be taken off by a boy on the other side of the machine. When equipped with an Automatic Belt Conveyor the usable Smashing Area is 15 x 16 inches.